This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

RESIN SEALED TYPE SEMICONDUCTOR DEVICE JP4098864 Patent Number: 1992-03-31 Publication date: TAKASAKI YUKAKO Inventor(s): **NEC KYUSHU LTD** Applicant(s): Requested Patent: ☐ JP4098864 Application Number: JP19900216146 19900816 Priority Number(s): IPC Classification: H01L23/50 EC Classification: Equivalents: Abstract PURPOSE:To protect outer leads against deformation such as bend and to prevent soldering from deteriorating in reliability by a method wherein a support protruding from the side face of the outer lead toward an adjacent outer lead and insulators provided between the adjacent supports so as to connect them together are provided. CONSTITUTION: A lead frame is provided with inner leads 2 provided around an island 1, outer leads 4 provided outside a resin sealed region 3 and connected to the inner leads 2, a tie bar 5 provided near the resin sealed region 3 to support the outer leads 4 interlinking them together, a support 6 whose ends are projected and recessed so as to enable then to be engaged with each other and which protrude from the side face of the outer lead 4 distant from a resin sealed region toward the adjacent outer lead 4, and an insulator 7 provided to be interposed between the adjacent supports 6 so as to interlink the supports 6 together. By this setup, leads can be protected against deformation caused by external shock and improved in reliability of soldering at mounting.

Data supplied from the esp@cenet database - I2